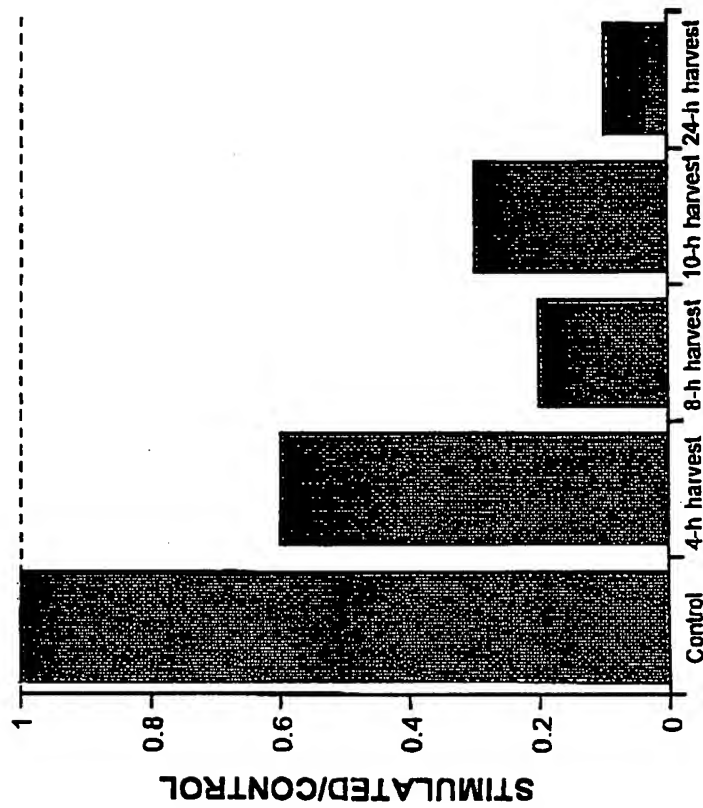


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RESPONSE TIMES

MMP-1 mRNA (plus interleukin)



30-MIN CONTINUOUS STIMULATION

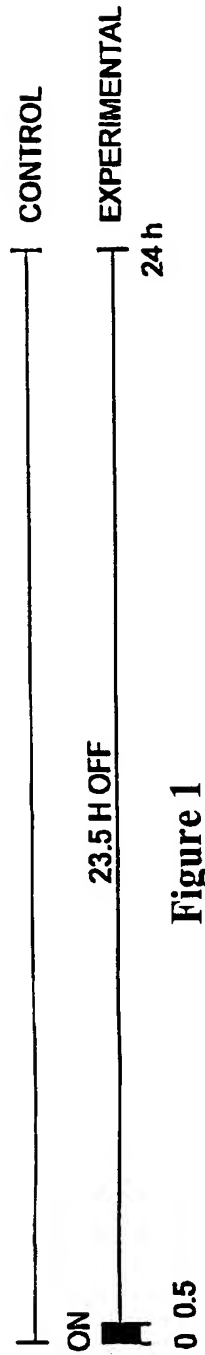


Figure 1

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SIGNAL TYPE

AGGRECAN mRNA (plus interleukin)

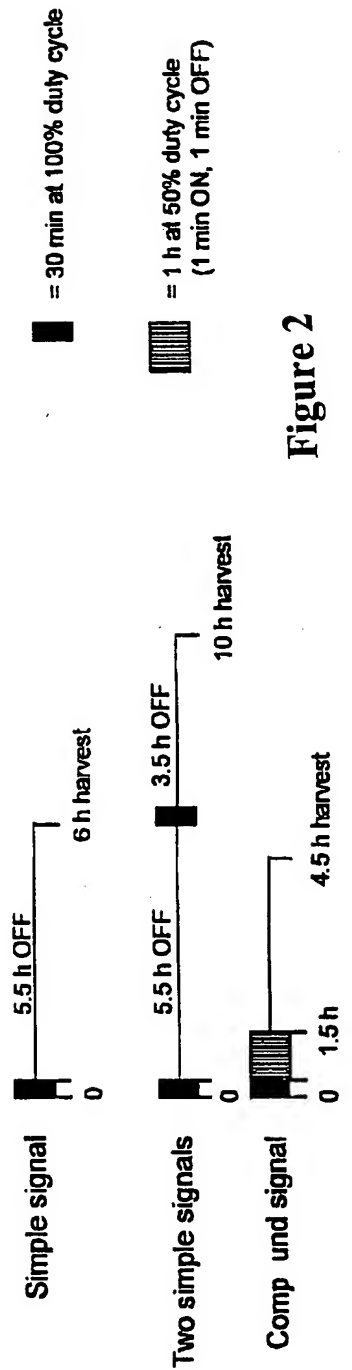
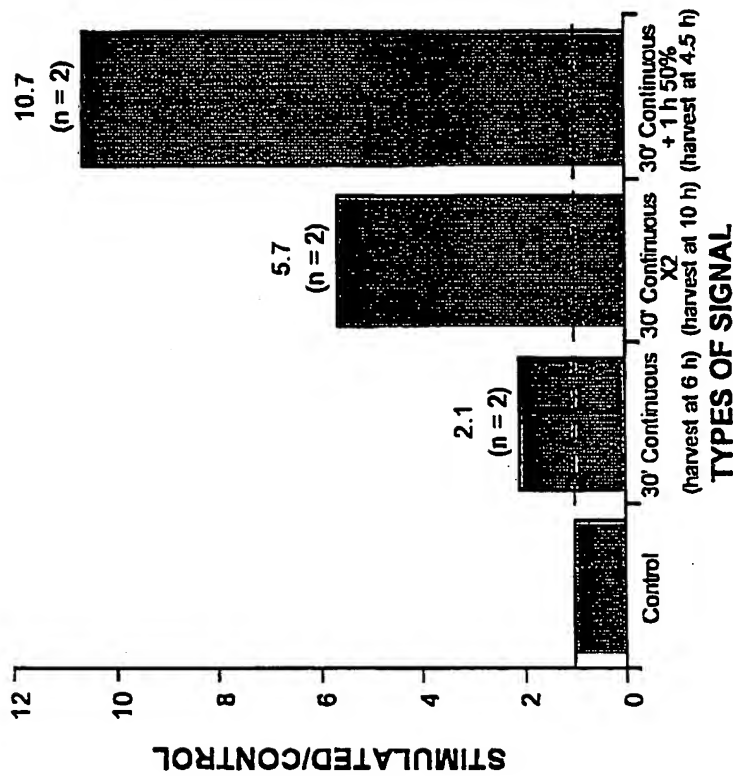
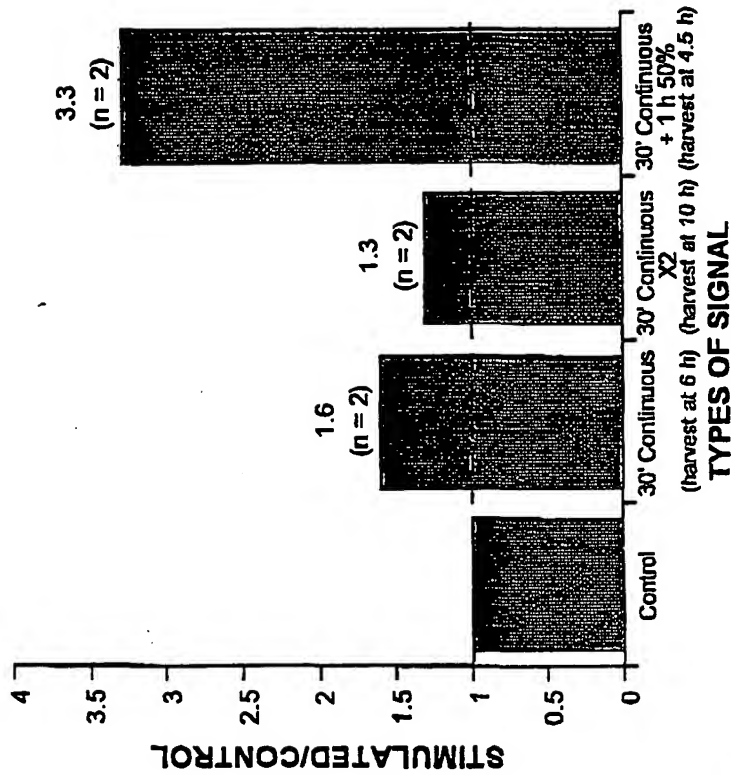


Figure 2

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SIGNAL TYPE

TYPE II COLLAGEN mRNA (plus interleukin)



TYPES OF SIGNAL

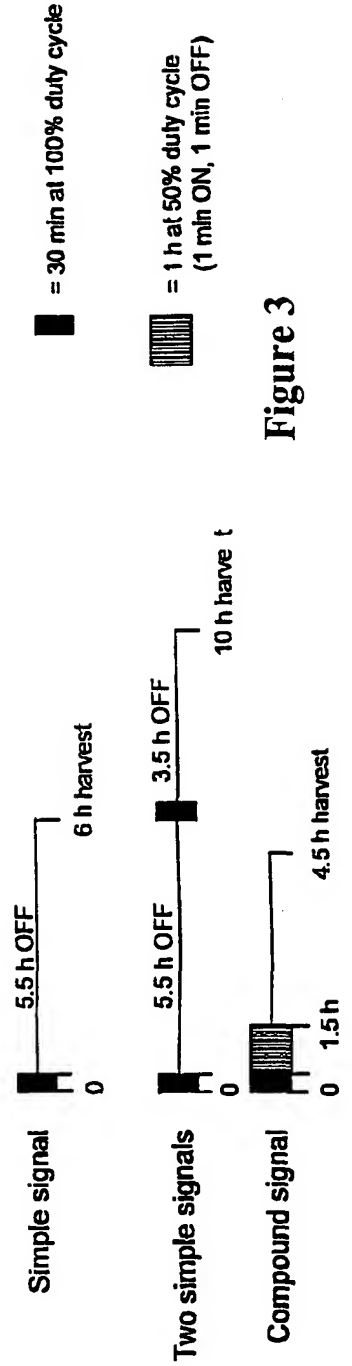


Figure 3

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HEXOSAMINE PRODUCTION With and without electrical stimulation (Stim.) With and without interleukin (IL)

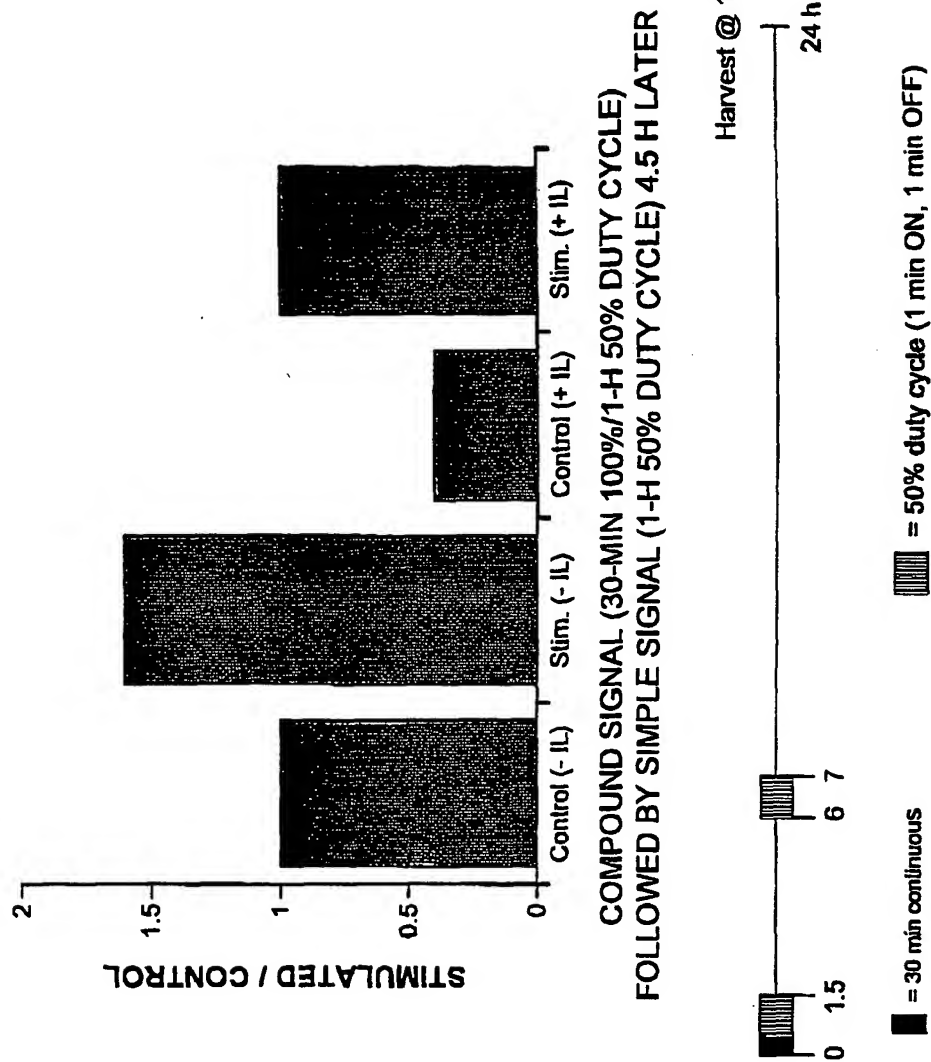


Figure 4

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HYDROXYPROLINE PRODUCTION With and without electrical stimulation (Stim.) With and without interleukin (IL)

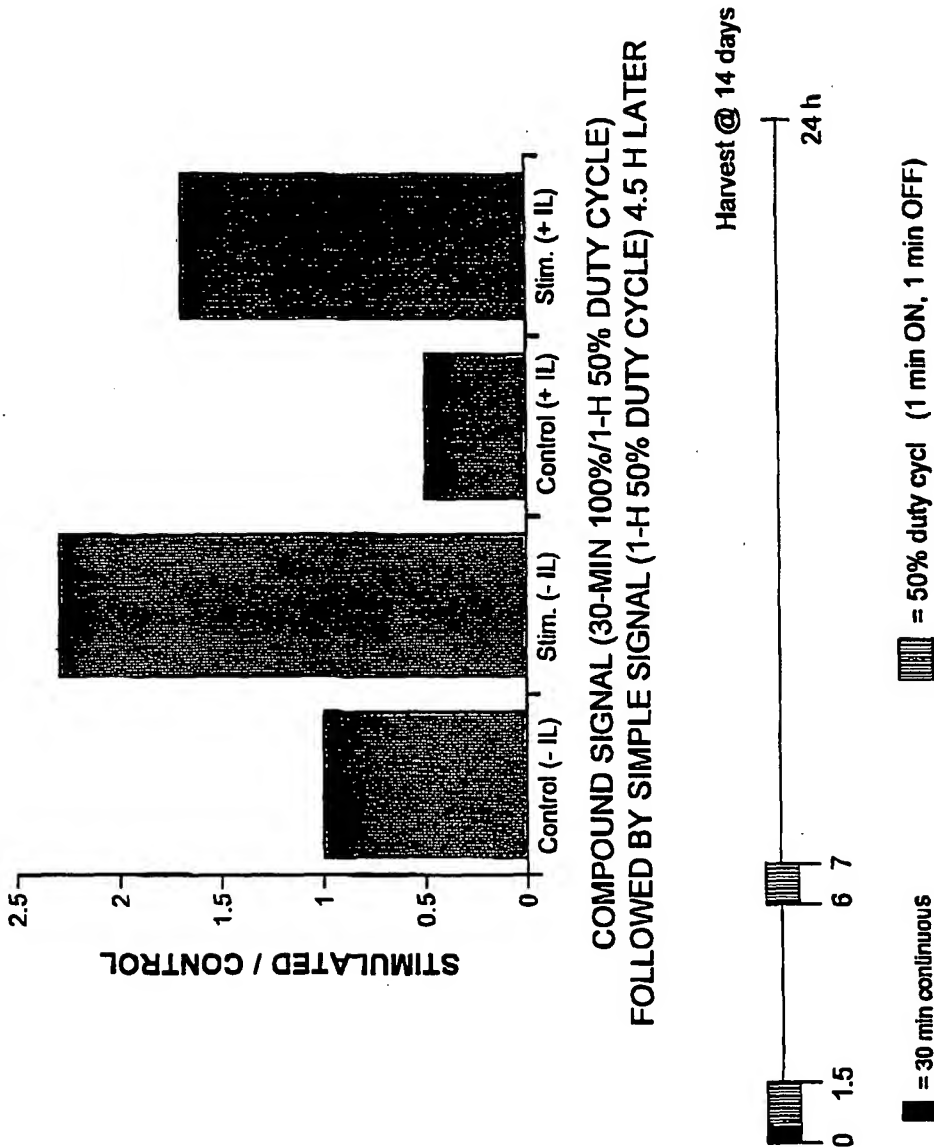


Figure 5

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HEXOSAMINE (PROTEOGLYCAN) INCREASES AFTER VARIOUS SIGNAL TYPES

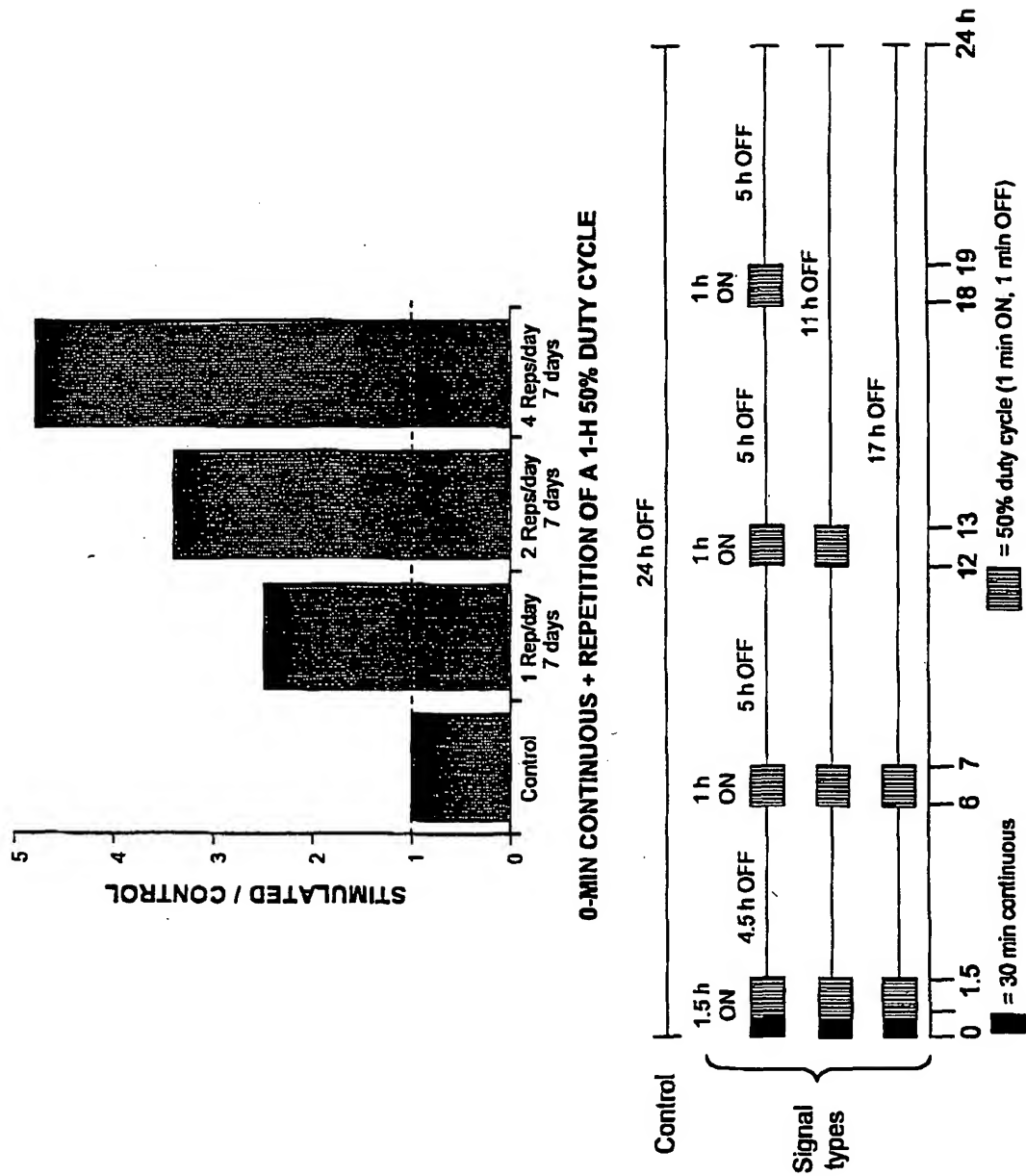


Figure 6

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HYDROXYPROLINE (COLLAGEN) INCREASES AFTER VARIOUS SIGNAL TYPES

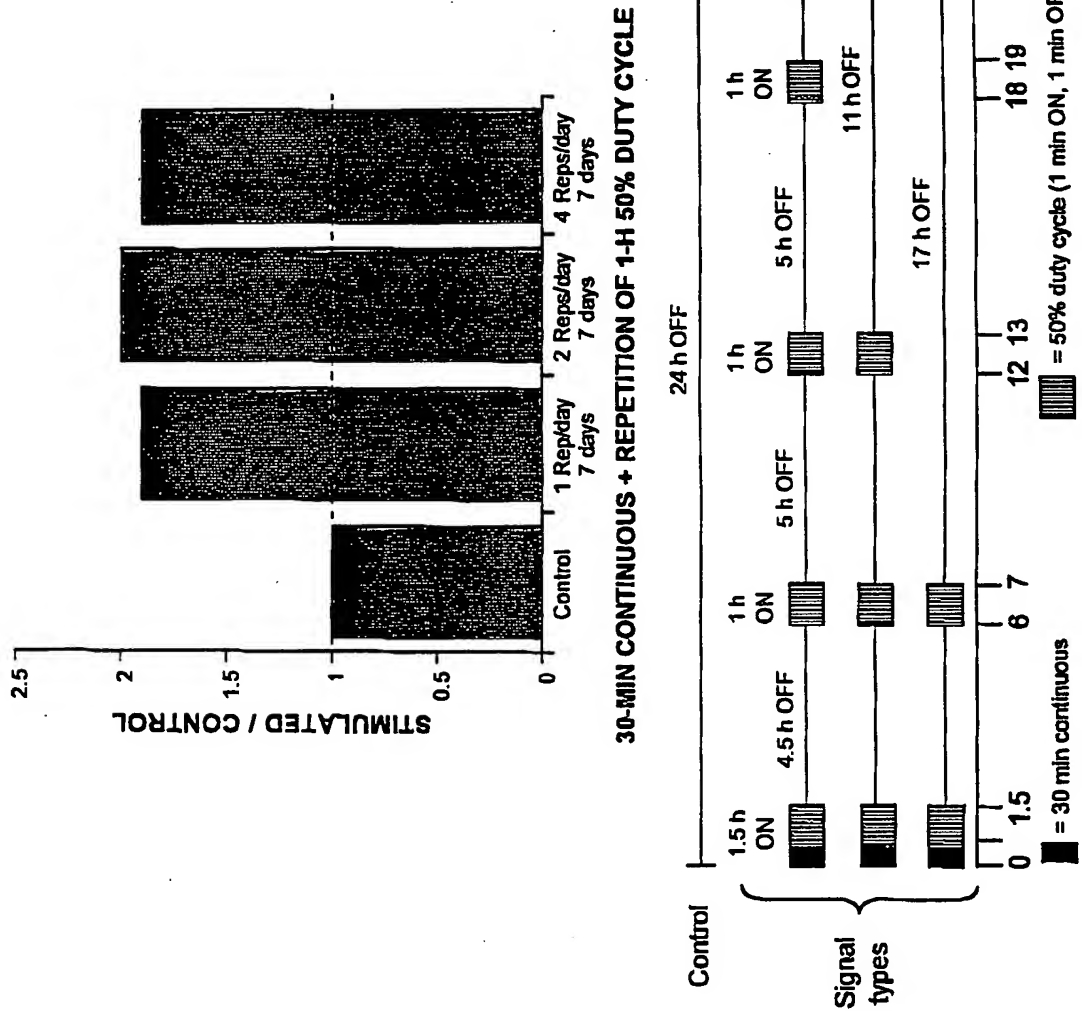


Figure 7

DEVICE SIGNAL MODES

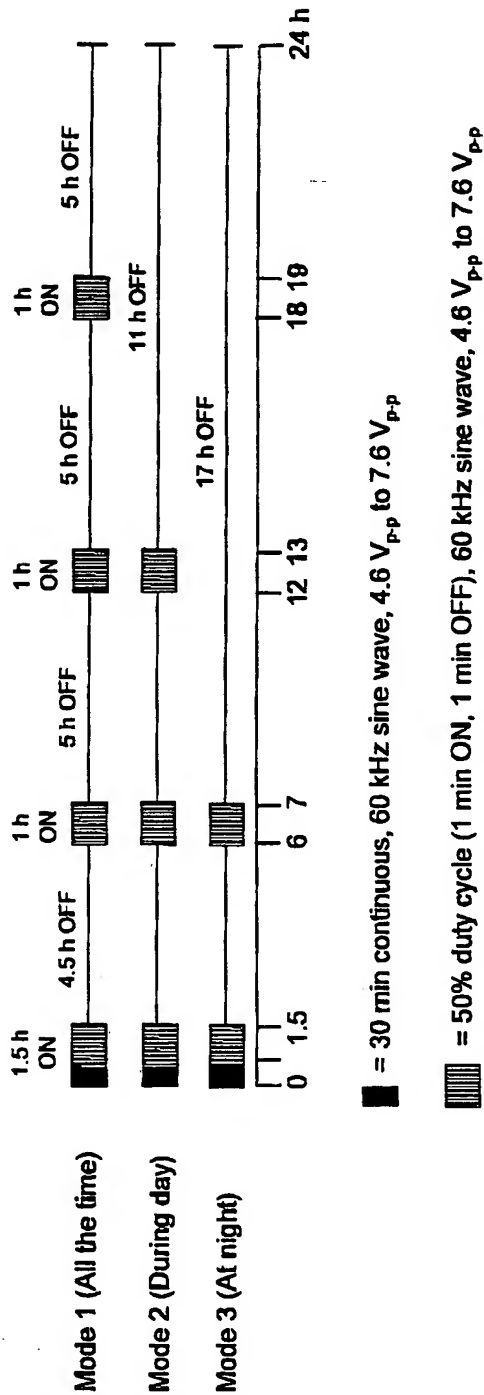


Figure 8

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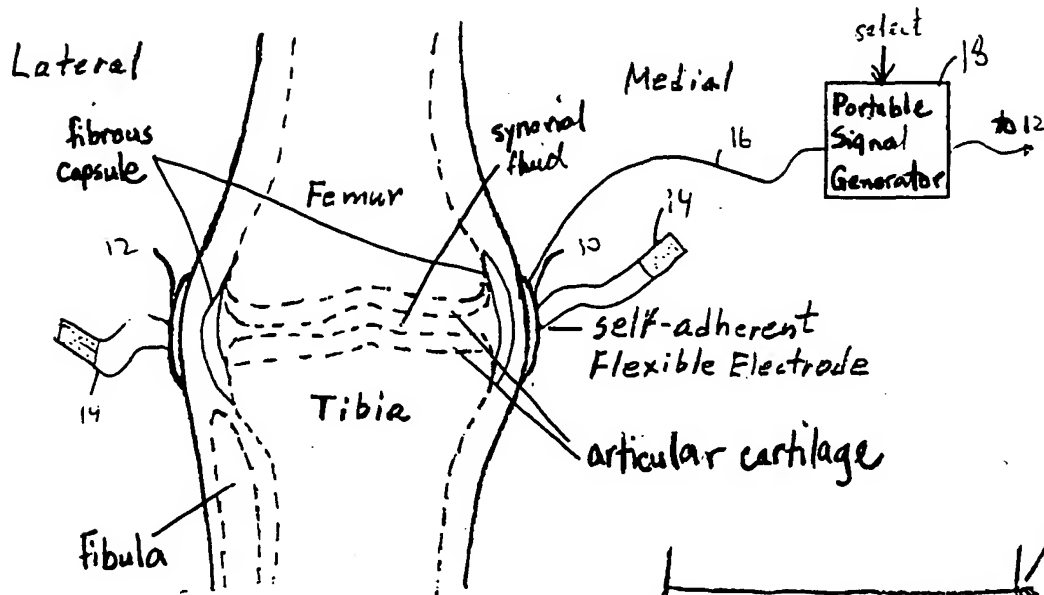


Figure 9A

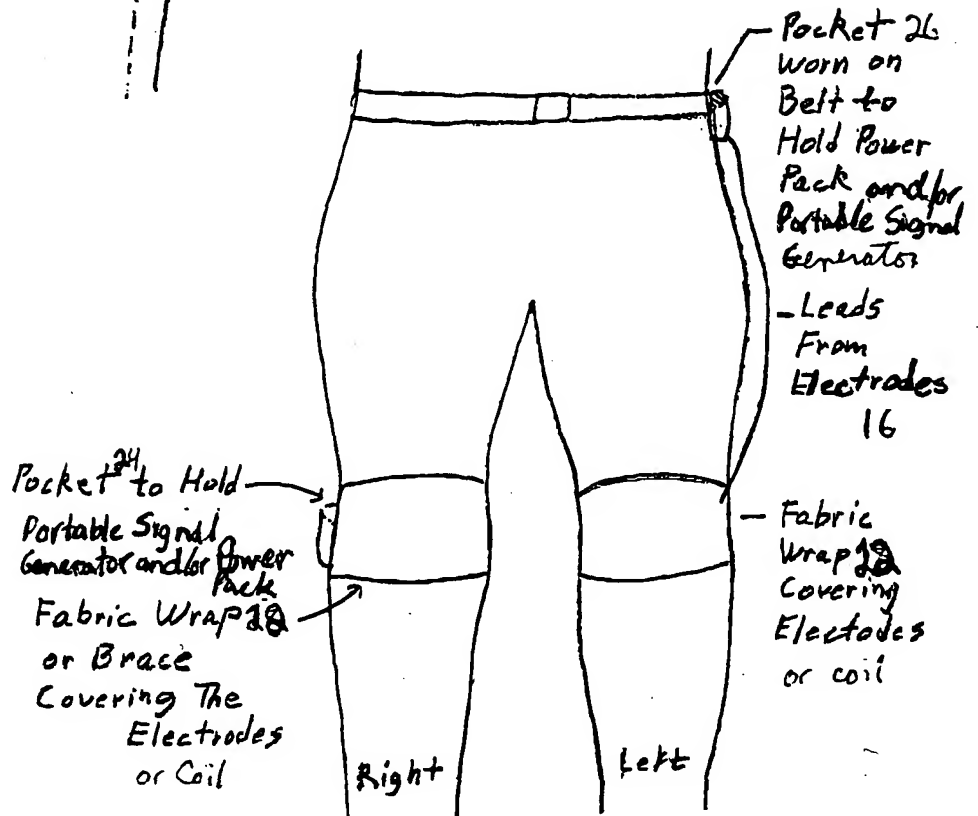


Figure 9B

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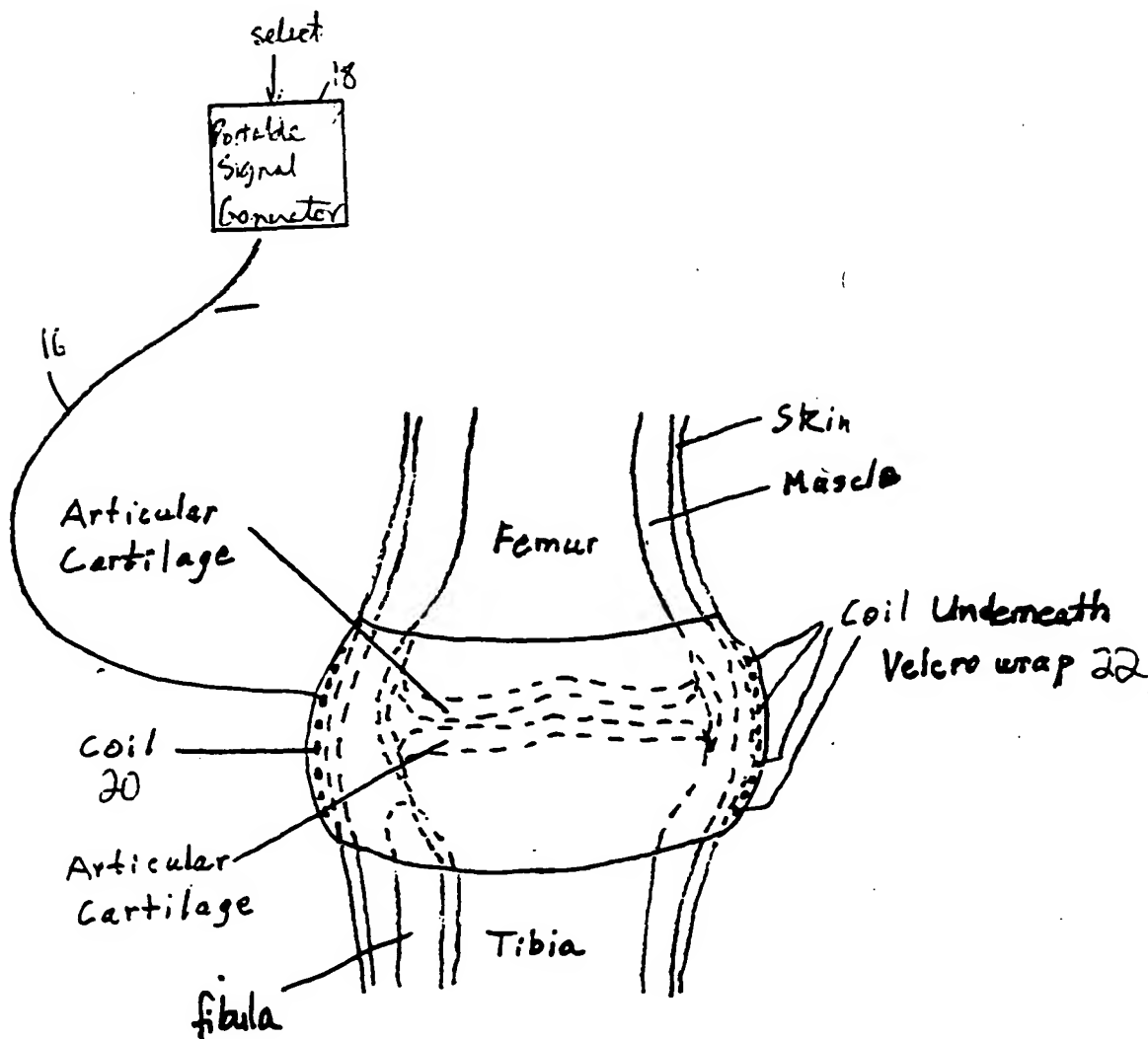


Figure 9C

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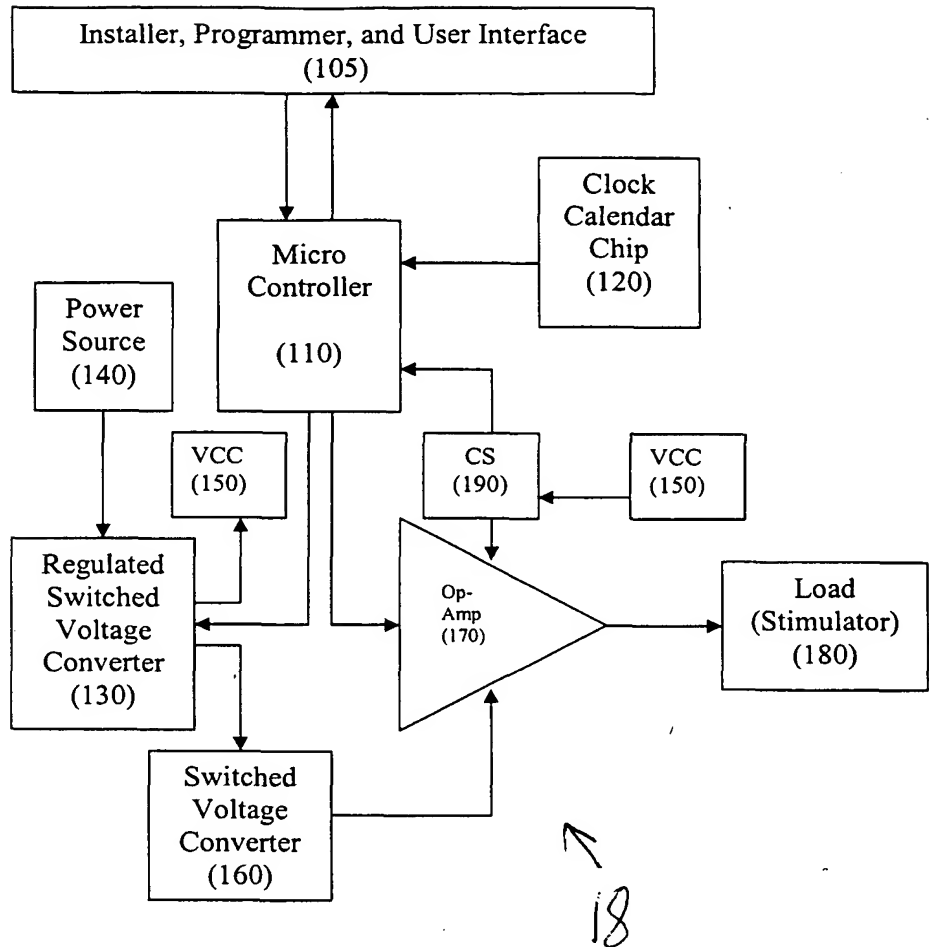


Figure 10

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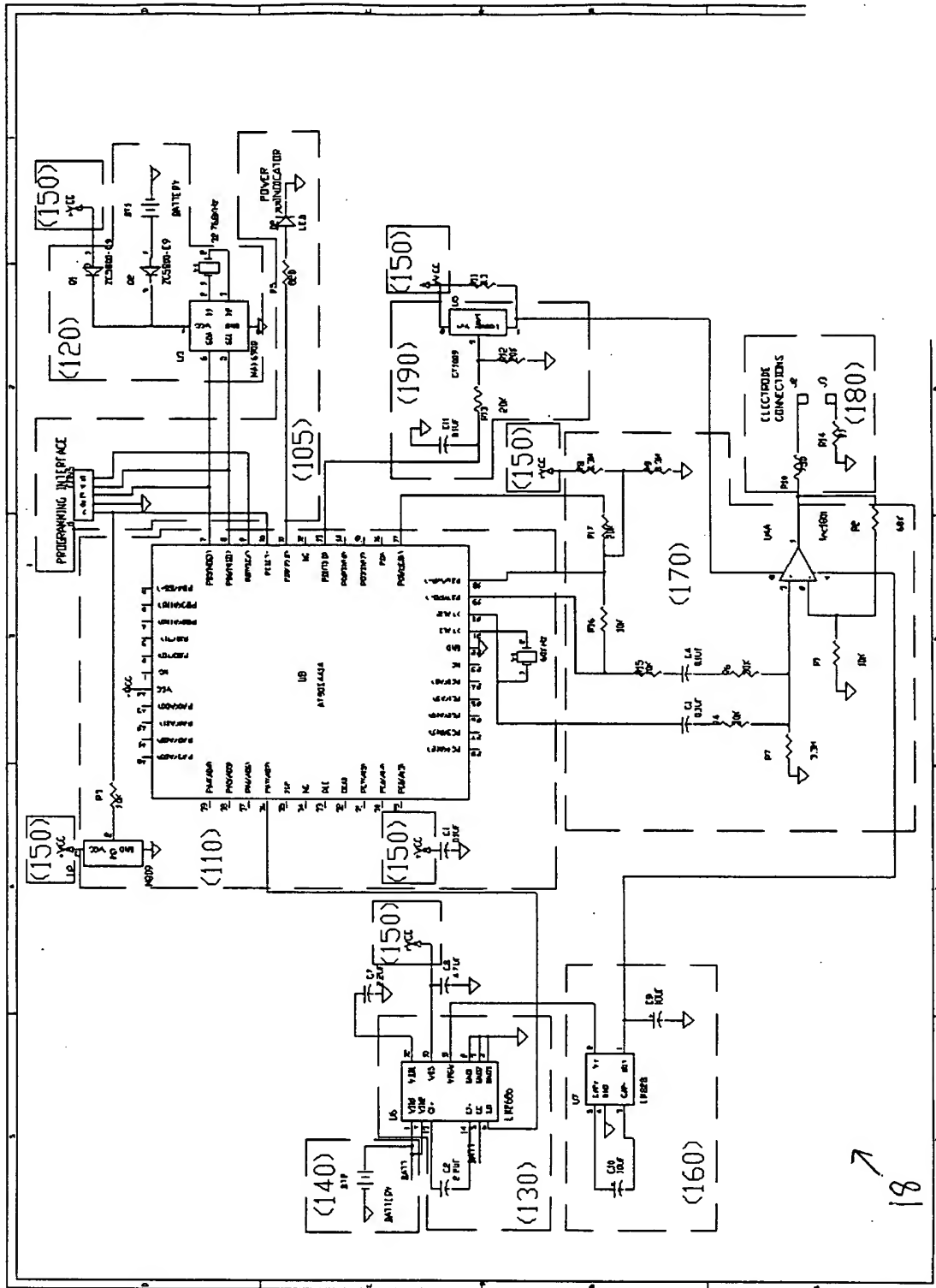


Figure 11